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In the Claims

 (currently amended) A method, comprising: detecting whether a floppy disk operation is a write; and,

masking DMA requests from at least one DMA channel during said write thereby preventing data corruption, wherein said at least one DMA channel has a higher priority than a DMA channel associated with said floppy disk operation.

- 2. (original) The method of claim 1, wherein said masking DMA requests is only during a portion of said write.
- 3. (original) The method of claim 1, wherein said masking DMA requests is during all of said write.
- 4. (original) The method of claim 1, wherein said detecting and said masking is accomplished by said floppy disk driver routine.
 - 5. (cancelled)
- 6. (original) The method of claim 1, comprising: providing a timer interrupt service routine that accomplishes said masking.
- 7. (original) The method of claim 6, comprising: reprogramming a timer to interrupt at a more rapid rate.
 - (original) The method of claim 6, comprising: reading a DMA byte count.
 - 9. (original) The method of claim 8, comprising:

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accomplishing said masking after said DMA byte count reaches a threshold.

- 10. (original) The method of claim 8, comprising:
 estimating when said write will complete from said DMA
 byte count.
- 11. (original) The method of claim 10, wherein said estimating includes a linear interpolation.
- 12. (original) The method of claim 10, wherein said estimating includes a least squares fit method.
- 13. (original) The method of claim 10, wherein said estimating includes a polynomial fit method.
 - 14. (original) The method of claim 10, comprising:

 determining a time to accomplish said masking based upon a result of said step of estimating.
- 15. (currently amended) An apparatus, comprising:

 a floppy disk controller receiving data via DMA accesses
 under the control of a DMA controller wherein said DMA
 controller ignores at least one DMA request line when an
 underrun error may occur, wherein said at least one DMA
 request line has a higher priority than a DMA request line
 associated with said floppy disk controller.
 - 16. (original) The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line for a transfer of data comprising a whole sector.
- 25 17. (original) The apparatus of claim 15 wherein said DMA

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controller ignores said at least one DMA request line for a transfer of data comprising less than a whole sector.

- 18. (original) The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line after a threshold number of bytes have been transferred.
- 19. (original) The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line after a first time period has elapsed.
- 20. (original) The apparatus of claim 15 wherein said DMA ontroller ignores said at least one DMA request line a second time period before a transfer of a last byte.
 - 21. (original) The apparatus of claim 20 wherein said second time period is based upon an estimate of when said transfer of said last byte will occur.
- 22. (original) The apparatus of claim 21 wherein said estimate is derived by monitoring a DMA byte count.
 - 23. (original) The apparatus of claim 21 wherein said estimate is derived by monitoring a system clock.
- 24. (original) The apparatus of claim 21 wherein said estimate is based upon samples taken of a DMA byte count and a system clock.
 - 25. (original) The apparatus of claim 24 wherein said samples are interpolated linearly to produce said estimate.
 - 26. (original) The apparatus of claim 24 wherein said

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samples are input to a least squares fit process to produce said estimate.

- 27. (original) The apparatus of claim 24 wherein said samples are input to a polynomial curve fitting process to produce said estimate.
- 28. (previously amended) An apparatus, comprising: a DMA controller in communication with a floppy disk controller; and,
- means for masking at least one DMA request line when a DMA underrun may occur due to an improperly designed floppy disk controller, wherein said at least one DMA request line has a higher priority than a DMA request line associated with said floppy disk controller.
- 29. (original) The apparatus of claim 28 wherein said at least one DMA request line is masked based upon an estimate generated by a means for estimating.
 - 30. (original) The apparatus of claim 29 wherein said means for estimating includes means for linear interpolation.
- 31. (original) The apparatus of claim 29 wherein said means for estimating includes means for performing a least squares fit analysis.
 - 32. (original) The apparatus of claim 29 wherein said means for estimating includes means for performing a polynomial fit analysis.
- 33. (currently amended) A program storage medium readable by a computer, tangibly embodying a program of instructions

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executable by a computer to perform method steps, said method steps comprising:

detecting whether a floppy disk operation is a write; and, masking DMA requests from at least one DMA channel during said write thereby preventing data corruption, wherein said at least one DMA channel has a higher priority than a DMA channel associated with said floppy disk operation.

- 34. (original) The program storage medium of claim 33, wherein said masking DMA requests is only during a portion of said write.
- 35. (original) The program storage medium of claim 33, wherein said masking DMA requests is during all of said write.
- 36. (original) The program storage medium of claim 33, wherein said detecting and said masking is accomplished by said floppy disk driver routine.
- 87. (cancelled)
- 38. (original) The program storage medium of claim 33, comprising:

providing a timer interrupt service routine that accomplishes said masking.

39. (original) The program storage medium of claim 38, comprising:

reprogramming a timer to interrupt at a more rapid rate.

40. (original) The program storage medium of claim 38, comprising: reading a DMA byte count.

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41. (original) The program storage medium of claim 40, comprising:

accomplishing said masking after said DMA byte count reaches a threshold.

5 42. (original) The program storage medium of claim 40, comprising:

estimating when said write will complete from said DMA byte count.

- 43. (original) The program storage medium of claim 42, wherein said estimating includes a linear interpolation.
 - 44. (original) The program storage medium of claim 42, wherein said estimating includes a least squares fit method.
 - 45. (original) The program storage medium of claim 42, wherein said estimating includes a polynomial fit method.
- 15 46. (original) The program storage medium of claim 42, comprising:

determining a time to accomplish said masking based upon a result of said step of estimating.

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